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DS

HLEAD.2: ggg gat atc cac cat gRa ctt cgg gYt gag ctK ggt ttt (SEQ ID NO.27)

CH3': agg gaa ttc aYc tcc aca cac agg RRc cag tgg ata gac (SEQ ID NO. 26)

In the claims:

For convenience, all pending claims are presented, whether amended or not, in the attached marked set of claims. Please amend claims 53 and 70, and add new claims 71-85 as follows:

--53. (3X amended) A protein fragment consisting of the amino acid residues selected from the group consisting of:

- a. amino acid residues 2 through 50 as described in SEQ ID NO:2;
- b. amino acid residues 85 through 123 as described in SEQ ID NO:2;
- c. amino acid residues 46 through 109 as described in SEQ ID NO:2;
- d. amino acid residues 18 through 98 as described in SEQ ID NO:2;
- e. amino acid residues 22 through 99 as described in SEQ ID NO:2;
- f. amino acid residues 21 through 50 as described in SEQ ID NO:2;
- g. amino acid residues 46 through 85 as described in SEQ ID NO:2;
- h. amino acid residues 50 through 64 as described in SEQ ID NO:2;
- i. amino acid residues 67 through 81 as described in SEQ ID NO:2;
- j. amino acid residues 21 through 99 as described in SEQ ID NO:2;
- k. amino acid residues 71 through 82 as described in SEQ ID NO:2;
- l. amino acid residues 85 through 99 as described in SEQ ID NO:2;
- m. amino acid residues 18 through 50 as described in SEQ ID NO:2;
- n. amino acid residues 46 through 98 as described in SEQ ID NO:2; or
- o. amino acid residues 85 through 98 as described in SEQ ID NO:2; --

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- 55. (not amended) The protein fragment of claim 53, consisting of amino acid residues 2 through 50 as described in SEQ ID NO:2.--
- 56. (not amended) The protein fragment of claim 53, consisting of amino acid residues 85 through 123 as described in SEQ ID NO:2.--
- 57. (not amended) The protein fragment of claim 53, consisting of amino acid residues 46 through 109 as described in SEQ ID NO:2.--
- 58. (not amended) The protein fragment of claim 53, consisting of amino acid residues 18 through 98 as described in SEQ ID NO:2.--
- 59. (not amended) The protein fragment of claim 53, consisting of amino acid residues 22 through 99 as described in SEQ ID NO:2.--
- 60. (not amended) The protein fragment of claim 53, consisting of amino acid residues 21 through 50 as described in SEQ ID NO:2.--
- 61. (not amended) The protein fragment of claim 53, consisting of amino acid residues 46 through 85 as described in SEQ ID NO:2.--
- 62. (not amended) The protein fragment of claim 53, consisting of amino acid residues 50 through 64 as described in SEQ ID NO:2.--
- 63. (not amended) The protein fragment of claim 53, consisting of amino acid residues 67 through 81 as described in SEQ ID NO:2.--
- 64. (not amended) The protein fragment of claim 53, consisting of amino acid residues 21 through 99 as described in SEQ ID NO:2.--

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- 65. (not amended) The protein fragment of claim 53, consisting of amino acid residues 71 through 82 as described in SEQ ID NO:2.--
- 66. (not amended) The protein fragment of claim 53, consisting of amino acid residues 85 through 99 as described in SEQ ID NO:2.--
- 67. (not amended) The protein fragment of claim 53, consisting of amino acid residues 18 through 50 as described in SEQ ID NO:2.--
- 68. (not amended) The protein fragment of claim 53, consisting of amino acid residues 46 through 98 as described in SEQ ID NO:2.--
- 69. (not amended) The protein fragment of claim 53, consisting of amino acid residues 85 through 98 as described in SEQ ID NO:2.--
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70. (Amended) A fusion protein consisting of a Prostate Stem Cell Antigen (PSCA) protein fragment fused to heterologous amino acids, wherein the PSCA protein fragment consists of the amino acid residues selected from the group consisting of:
- amino acid residues 2 through 50 as described in SEQ ID NO:2;
 - amino acid residues 85 through 123 as described in SEQ ID NO:2;
 - amino acid residues 46 through 109 as described in SEQ ID NO:2;
 - amino acid residues 18 through 98 as described in SEQ ID NO:2;.
 - amino acid residues 22 through 99 as described in SEQ ID NO:2;
 - amino acid residues 21 through 50 as described in SEQ ID NO:2;
 - amino acid residues 46 through 85 as described in SEQ ID NO:2;
 - amino acid residues 50 through 64 as described in SEQ ID NO:2;
 - amino acid residues 67 through 81 as described in SEQ ID NO:2;
 - amino acid residues 21 through 99 as described in SEQ ID NO:2;

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- k. amino acid residues 71 through 82 as described in SEQ ID NO:2;
- l. amino acid residues 85 through 99 as described in SEQ ID NO:2;
- m. amino acid residues 18 through 50 as described in SEQ ID NO:2;
- n. amino acid residues 46 through 98 as described in SEQ ID NO:2; or
- o. amino acid residues 85 through 98 as described in SEQ ID NO:2. --

- 71. (New) The protein fragment of claim 70, consisting of amino acid residues 2 through 50 as described in SEQ ID NO:2. --
- 72. (New) The protein fragment of claim 70, consisting of amino acid residues 85 through 123 as described in SEQ ID NO:2. --
- 73. (New) The protein fragment of claim 70, consisting of amino acid residues 46 through 109 as described in SEQ ID NO:2. --
- 74. (New) The protein fragment of claim 70, consisting of amino acid residues 18 through 98 as described in SEQ ID NO:2. --
- 75. (New) The protein fragment of claim 70, consisting of amino acid residues 22 through 99 as described in SEQ ID NO:2. --
- 76. (New) The protein fragment of claim 70, consisting of amino acid residues 21 through 50 as described in SEQ ID NO:2. --
- 77. (New) The protein fragment of claim 70, consisting of amino acid residues 46 through 85 as described in SEQ ID NO:2. --
- 78. (New) The protein fragment of claim 70, consisting of amino acid residues 50 through 64 as described in SEQ ID NO:2. --

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- 79. (New) The protein fragment of claim 70, consisting of amino acid residues 67 through 81 as described in SEQ ID NO:2. --
 - 80. (New) The protein fragment of claim 70, consisting of amino acid residues 21 through 99 as described in SEQ ID NO:2. --
 - 81. (New) The protein fragment of claim 70, consisting of amino acid residues 71 through 82 as described in SEQ ID NO:2. --
 - 82. (New) The protein fragment of claim 70, consisting of amino acid residues 85 through 99 as described in SEQ ID NO:2. --
 - 83. (New) The protein fragment of claim 70, consisting of amino acid residues 18 through 50 as described in SEQ ID NO:2. --
 - 84. (New) The protein fragment of claim 70, consisting of amino acid residues 46 through 98 as described in SEQ ID NO:2. --
 - 85. (New) The protein fragment of claim 70, consisting of amino acid residues 85 through 98 as described in SEQ ID NO:2. --

REMARKS

Claims 53 and 55-70 were pending. Applicants amended claims 53 and 70, and added claims 71-85. Accordingly, claims 53, and 55-85 are being examined.